

MINING APPLICATION
NO. ACT/019/007
Date _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(Sec Rule M of General Rules and Regulations)

1. Name of Applicant or Company Atlas Minerals-Division of Atlas Corporation
Corporation () Partnership () Individual ()

2. Address Big Indian Mines Moab, Utah 84532
Permanent Temporary

3. Name and title of person representing company T. L. Wilson, Manager of Mines

4. Address Big Indian Mines Office Phone 686-2217

5. Location of Operation Grand Sec. 33 T. 22S R. 22E
County

6. Name of Mine Cactus Rat Mine

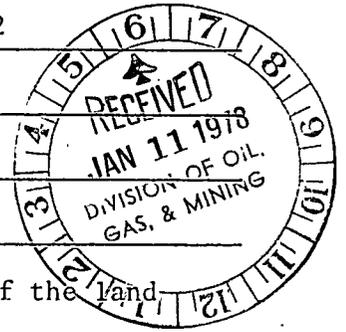
7. Mineral to be mined: Mining method:
() Coal () Flagstone Underground
() Copper () Gravel
() Manganese () Shale Random Room and
() Iron Ore () Uranium Pillar and surface strip
() Phosphate () Gilsonite
() Potash () Bituminous Sandstone
() Fluorspar () Tungsten
() Other (specify) _____

8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
() Yes () No

If yes, list all approval numbers now under surety:

#ACT-037-008 #ACT-037-003 #ACT-015-011
#ACT-037-010 #ACT-037-006
#ACT-037-012 #ACT-037-007

9. Owner/Owners of record of the surface area within the land to be affected:
Public Domain Address Bureau of Land Management
Address _____
Address _____
Address _____



10. Owner/Owners of record of minerals to be mined:

<u>Atlas Minerals</u>	Address <u>Moab, Utah 84532</u>
_____	Address _____
_____	Address _____
_____	Address _____

11. Owner/Owners of record of all other minerals within any part of the land affected:

<u>Atlas Minerals</u>	Address <u>Moab, Utah 84532</u>
_____	Address _____
_____	Address _____

11a. Have the above owners been notified in writing?
(X) Yes () No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Ownership or lease of unpatented mining claims

13. Approximate acreage to be disturbed:

A) Mining Operation Area -	<u>17.3</u>	acres
(include operations, storage, & disposal area)		
B) Access Road or Haulageway -	_____	acres
C) Drainage System -	_____	acres
TOTAL ACRES:	<u>17.3</u>	

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or person performing a similar function) of Applicant:

Name:	Title:	Address:
a. <u>A. E. Dearth</u>	<u>President</u>	<u>Atlas Minerals</u>
b. _____		<u>Division of Atlas Corp.</u>
c. _____		<u>2506 Prudential Plaza</u>
d. _____		<u>1050 17th Street</u>
		<u>Denver, Colorado 80202</u>

15. Has Applicant, any subsidiary or affiliate or any person, partnership, association, trust, or corporation controlled by or under common control with Applicant, or any person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? () Yes (X) No

If yes, explain:

STATE OF UTAH
COUNTY OF GRAND



I, THOMAS L. WILSON, having been duly sworn depose and attest that all of the representations contained in the foregoing application are true to the best of my knowledge; that I am authorized to complete and file this application on behalf of the Applicant and this application has been executed as required by law.

Signed: Thomas L. Wilson

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 6th day of JANUARY, 19 78.

Notary Public: Lee Stocks

My Commission Expires: **LEE STOCKS**
NOTARY PUBLIC
RESIDING AT MOAB, UTAH
MY COMMISSION EXPIRES
NOV. 2, 1981

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows:

"Information relating to the location, size, or nature of the deposit and marked confidential by the operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21."

Is confidential information contained herein?

YES OK (Initial)

NO _____ (Initial)

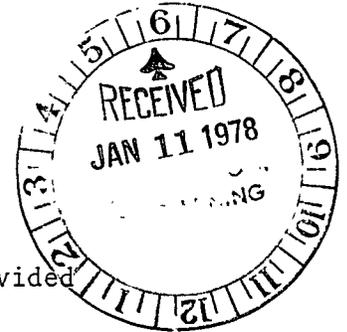
Sections desired to be maintained as confidential information -

Maps - Mine Plan

MINING APPLICATION
NO. _____

Date _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



MINING AND RECLAMATION PLAN
(Other forms may be used in lieu of MR 2, provided they contain the same information)

1. Name of Applicant or Company Atlas Minerals - Division of Atlas Corporation
2. Proposed type of operation Underground uranium mine
3. (a) Prior Land Use(s) Mining, grazing
(b) Current Land Use(s) Mining, grazing
(c) Possible or Prospective Future Land Use(s) Grazing
4. What vegetation exists on the land proposed to be affected _____
Shadscale, mormon tea, and miscl.
(a) Types and Estimated Percent cover or density: Less than 5% cover
5. What is the pH range of soil before mining? 7.8-8.2 pH
Name of Person or Agency and method of determining pH Brad Clark, Atlas Minerals using lamotte colorimetric method
6. Site elevation above sea level 4900 feet
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) NA
8. Estimated duration of mining operations eight (8) years
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? () Yes (X) No
Does the above material being moved have any other characteristics affecting revegetation? Nutrient deficient
10. Will any underground workings or aquifers be encountered? (X) Yes () No
Describe Abandoned underground workings
Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (X) No If yes, describe the quality of water being discharged. _____

11. Describe specifically a detailed procedure for:
- (a) The mining sequence
 - (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
 - (c) The procedure for site preparation including removing trees and brush.
 - (d) The method for removing and stockpiling topsoil or disturbed materials.
 - (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
 - (f) A procedure for final stabilization of disturbed materials.



GRADING AND REGRADING

Specifically describe:

- (a) Typical cross-section of regrading.
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

TESTING

1. Describe method for testing stability of reclamation fill material.

Observation of existing development rock stockpiles

Describe method for the testing of soil that is intended to support vegetation

soil analysis and revegetation study plots

2. Describe any soil treatment employed as an aid to revegetation None planned at this time; soil amendments and surface manipulation proven by revegetation studies, may be used.

3. Describe surface preparation of areas intended to support vegetation:

Round-off outside edges of waste rock stockpiles, scarify compacted

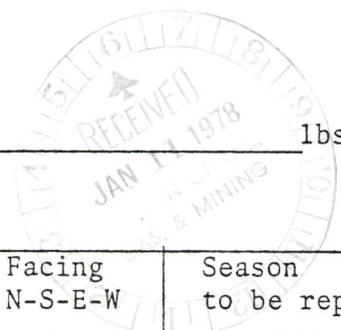
surfaces, regrade area to an appropriate topography, broadcast seed

and drag cover.

REVEGETATION

1. Revegetation to be completed by:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Operator | <input type="checkbox"/> Hydroseeding |
| <input type="checkbox"/> Soil Conservation District | <input type="checkbox"/> Aerial Seeding |
| <input type="checkbox"/> Private Contractor | <input type="checkbox"/> Conventional or Rangeland Drill |
| <input type="checkbox"/> Other (specify) _____ | <input type="checkbox"/> Broadcast and Drag |
| | <input checked="" type="checkbox"/> Other <u>Broadcast & drag cover</u> |



2. Will Mulch be used? () Yes () No
 Type: _____ Rate/Acre _____ lbs.

3. Revegetation Plan and Schedule -

Species	Rate/Acre	Planting Location	Facing N-S-E-W	Season to be replanted
Indian Ricegrass	1 lb./ac	Entire site	All	Preferably fall
Four Wing Saltbush	"	"	"	"
Sanddrop seed	"	"	"	"
Crested Wheatgrass	2 lb./ac	"	"	"

4. Will affected area be subject to livestock or wildlife grazing?
 () Yes () No Will vegetation protection be needed? If grazing
pressure warrents, protection will be employed.

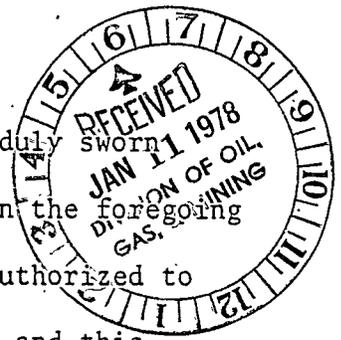
5. Will irrigation be used: () Yes () No Type _____

6. Describe maintenance procedures for revegetation if needed, until surety release is granted. Monitoring and reseeding if necessary.

STATE OF UTAH

COUNTY OF GRAND

I, THOMAS L. WILSON, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.



Signed: [Signature]

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 6th day of JANUARY, 19 78.

Notary Public: [Signature]

My Commission Expires: **LEE STOCKS
NOTARY PUBLIC
RESIDING AT MOAB, UTAH
MY COMMISSION EXPIRES
NOV. 2, 1981**

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows:

"Information relating to the location, size, or nature of the deposit and marked confidential by the operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21."

Is confidential information contained herein?

YES [Initial] (Initial)

NO _____ (Initial)

Sections desired to be maintained as confidential information -

MAPS - MINE PLAN

Attachment A

Cactus Rat Mine



Location

The Cactus Rat Mine is an existing mine site with a history dating back to the early 1950's. It is located in the Yellow Cat area on Section 33, Township 22 S, Range 22 E, in Grand County. The mine sits on Atlas controlled unpatented mining claims.

At an elevation of 4900', the mine site is sparsely vegetated. There are no natural water bodies on or adjacent to the site. Seasonal surface run-off drains into Agate wash near the mine.

Mining

The mine site consists of numerous small digs, cuts, spoil piles, and an old cabin which will be used as a combination shelter and equipment shed. Proposed mining will employ a combination of surface strip mining and underground modified room and pillar. Wherever possible, overburden will be used to fill existing cuts and pits. At the present time, plans are to use a rubber tired front-end loader for the stripping operation, but other types of equipment may be employed if necessary. Maximum ore depth is 100 feet with the majority less the 30 feet below the surface. The underground portion of the mining will use small rubber tired equipment in most of the smaller workings and possibly some tracked equipment in the larger workings; still in place from a long time back. Ore will be stockpiled until trucked to the mill in Moab, Utah. The Cactus Rat operation affects a total of 17.3 acres; 0.2 of which is access road.

Reclamation

Upon final abandonment of the Cactus Rat Mine, reclamation activity will begin. Extraneous debris, scrap metal, and discarded wood will be removed from the surface. Waste rock stockpiles, open cuts, pits, and overburden will be graded to a contour appropriate with the surrounding country. All portals will be secured to prevent accidental entry. The access roads and any other compacted surfaces will be scarified. All unvegetated portions of the affected 17.3 acres will be broadcast seeded and drag covered. At this time there are no plans for special seed bed preparation, however, soil amendments and surface manipulation will be utilized if the techniques prove effective in revegetation test plots.